

2/10	(9
AATTATGGCC CAACATGGTG AAAAATAAAA CTACAGTGAG TTTATGTCTC CACAATCACT ACATTTTATA GGGAGGCTGA GGCATAGTGG ACATTTTATA GGGAGGCTGA GGCATAGTGG AAAACAGGAA TGGTCTTTAT TGGTCTTTAT GGCTTGGCAA TGGTCTTTAT GGCTTGGCAA	AGCCCACCGC AACCGGGGCT Smal (-4406)
GTCTCTACGA AAAATCAAAA AATTATGGCC GAGTTCGAGA CTAGCCTGGC CAACATGGTG TCAGGAGGCT GAGGCAGGAG AATCACTTGA CTCTATCTCA AAAAAAAAA AAAAAAAAAA TGAACCTGGG GCAGTCAAGG CTACAGTGAG TAAAGAAAAA AACAGCTCTGT TTTATGTCTC GTGGGCCGTA TGGTCTCTGT CACAATCACT TTGAATTTCA TATGATTTTT ACATTTTATA GCCTGTAAAT AAAAATAAAA AAATTAGCTG GGCATAGTGG TGTACATCAG CAACATCACT TGTACATCAG GACACTCACT TGTACATCAG GGCATAGTGG TCTAAAGCCCTA CCAAGTTGCC ATCCAAGGAG TCTAAAGCCCTC ACTCTCTGTT TGGTCTTTTAT AGTGTCACAG AAACAGCAGG ATGAGCACTA CGGGGGTTGCC ATCTCTCTGTT TGGTCTTTTAT AGTGTCACAG AAACAGCAGG GCATCCTGTT TGGTCTTTTAT AGTGTCACAG AAACAGCAGG GGCGGGTCGA GGCATCCCTTG GGCGGGTCGA GGCATCCCTTG GGCGGGTCGA GGCTTGAGC GGCGGGTCGA GGCCTTGAGC GGCGGGTCGA TGGCTTGAGC GGCGGGTCGC CTGAGAGGTG	GGAGCCCTTC CTCAAGCAGG
TAGGGAGACT GTCTCTACGA AAAATCAAAA AATTATGGCC TTGAGGTCAG GAGTTCGAGA CTAGCCTGGC CAACATGGTG TCCCGGCTAC TCAGGAGGCT GAGGCAGGAG AATCACTTGA CAGAGCATCAT TCAGAAAAAA AAAAAAAAAAAAAAAAA	TGGCACTTGA
TAGGGAGACT GTCTCTACGA AAAATCAAAA AATTATGGCC TTGAGGTCAG GAGTTCGAGA CTAGCCTGGC CAACATGGTG TCCCGGCTAC TCAGGAGGCT GAGGCAGGAG AATCACTTGA CAGAGCAAGA CTCTATCTCA AAAAAAAAA AAAAATAAAA GAGGATCACT TGAACCTGGG GCAGTCAAGG CTACAGTGAG ATAATAATAATAA TAAAGAAAA AACAGCTCTG TTTATGTCTC TTTTAGGCTT GTGGGCCGTA TGGTCTCTGT CACAATCACT ACATCGAGAT TTGAATTTCA TATGATTTTT ACATTTTATA CCATCGTCAC CCTTAATTCTACT AAAAATAAAA AAATTAGCTG GGCATGTGG AAGCGGAGGT TGCAGTGAGC CCTTAATTCTACT AAAAATAAAA CAACAGGAGT TGCAGTGAGC CCTAATTCTACT AAAAATAAAA CCAACATTAA TGGACACTAC CCTAATTCTACT GGCAGTCGGA CCTAATTCTACT GGCAGTCGCG ACACAGGAGG ACAAAGATACA GACGGAGGT CCTAAGCCCCA GGCGGGTCTC TGGAGCCTC TGGAGCCTC AAAAATTATTA ACAAGGAAGT AGGCCTCACTGTT TGGACTTTTAT ACAGGAAAGT ATGACCTCC ACTCTCTTGTT TGGTCTTTTAT ACAGGAAAGT AGGCCTCC ACACTCGTT TGGACTTTTAT ACAGGAAAGT AGGCCTCAC ACACTCGTT TGGACTTTAT ACAGGAAAGT AGGCCTCC ACTCTCTCTTT TGGTCTTTTAT ACAGGAAAGT AGGCCTCAC ACACTCGATG AAAACTGCC ACACTCGAC ACAAGGAAG AGATCTTTTAT ACAGGAAAGT AGGCCTCC ACTCTCTCTCTT TGGTCTTTTAT ACAGGAAAGT AGGCCTCC ACTCTCTCTTT TGGTCTTTTAT ACAGGAAAGT AGGCCTCC ACTCTCTCTTT TGGTCTTTTAT ACAGGAAAGT AGGCCTCCC ACTCTCTCTCTT TGGTCTTTTAT ACAGGAAAGT AGGCCTCCC ACTCTCTCTCTT TGGTCTTTTAT ACAGGAAAGT AGGCCTCCC ACTCTCTCTCTCT TGGAGCCTCC ACACTCCTCCTC ACACTCCCTCC ACACTCCCTCC	CCCACTTCGG
CTGGGCAGCA GCACCTGTAA GCCTGAGGTGA GCTGAGGTGA GCTCTAAAAA ATAGTCAATT TTTTTTTTTT	TGCCTGGGCT
GACAGTAGTT CAAGACCAGC CTGGGCAGCA TAGGGAGACT GTCTCTACGA AAAATCAAAA AATTATGGCC TAGCAGGC CATCAAGGCA AGTGGATCAC TTGAGGTCAG GAGTTCGAGA CTAGCCTGGC CAACATGGTG TTAGCCAGGC ATGGTGGCAG GCACCTGTAA TCCCGGCTAC TCAGGAGGCT GAGGCAGGAG AATCACTTGA GATCACACCA TACTCAGGAG GCTGAGGTGA CAGAGCAGA CTCTATCTCA AAAAAATAA AAAAATAAAA TAGTCTCAGA TACTCAGAGA GCTGAGGTGG GAGGATCACT TGAACCTGGG GCAGTCAAG GAGACCCTGT CTCTAAAAAA ATAATAATAATAA TAAAGAAAA AACAGCTCTGT TTTATGTCTC ATAAACAACTTA ATAAACAACTTA ATAAACAAATTA TATTTAGGCTT TGAGCTGGG GAGGATCACT TTTTAGGCTT TTTTAGGCTT TGAGCTGGG GAGGATCACT TTTTAGGCTT TTTAGGGCTG TTTTATTTT TTTTAGGCTT TGAGGTTGT TTTTAGGCTT TTTTAGGCTT TGAGGTTGGG GAGGATCAATT TTTTAGGCTT TTTTAGGCTT TGAGGTTGT TGAGGTTGGG GAGGTTCTGG GAGGTTCTGG AGAGCTGGG GAGGATCACT TTTTAGGCTT TTTAGGGCTG TTTTATAGGCTT TTTTAGGCTT TTTTAGGGCT TTTTAGGCT TTTTAGGCT TTTTAGGCT TTTTAGGGCT T	TYCGCYCYCG GCGCCYCCTC TGCCYGGCY CCCACTYCGG TGGCACTYGA GGAGCCCTYC AGCCCACCGC CAAGGCCAGA GCCGGCYCCC YCAGCYYGCA GGGAGGYGTG GAGGCAGAGG CYCAAGCAGA AACCGGGGCY Smal (-440
GACAGTAGIT CAAGACCAGC CTGGGCAGCA TAGGGAGCT GTCTCTACGA AAAATCAAAA AATTATGGCC TTGGCAGCA ATTGGATCAC TTGAGGTCAG GAGTTCGAGA CTAGCACGCC CAACATGGTG TTAGCCAGCC ATTGAGGTCA TCCCGGCTAC TCAGGAGGCT GAGGCAGGAG AATCATTGAAAA TAGTCACACCC TACTCAGGAG GCTGAGGTGA CAGAGCAGA CTCTATCTCA AAAAAAATAAAAAAAAAA	TTCGCTCTCG
	ACAGCCCTCG CTGGGCTGGC
Sall (-6596) SGGCATCGTC AGGTCAACGG ATCACTTGAG AGACCTAC TCCACTAAAA ACCCAGGAGG CGGAGGTTGC AAATTAGCCA GGCATGGTTGC CCACGAGAG CCACGTTGC CCACGAGAG CCACTGACA TCCACCTGA TCCACCTGA TGCACCTGC TCCTCCCCCC TGCACCTGC TGCACCTGC TCCTCCCCCC TCCCCCCC TCCCCCCC TCCCCCCCC	693) GGCAGICCIC GAGCCCCIII
Sall (-6596) -6497 GCGCATGCTGC GCTCACGTCT GTAATCCCTG -6497 AAACCCTATC TCCACTAAAA AATACAAAAA -6297 ACCCAGGAGG CGGAGGTTGC AGTGAGCTGA -6197 AAATTAGCCA GGCATGGTAG TGCACACCTG -6097 CCAGGATCAT GCCACTACAAAAAATAACTCTGAGTCCATAAAAAATAATCTT TTTAAAAATTTTTTTTTT	Sphl (-4693) ACAGCATGCC GGCAGTCCTC ACAGCCCTCG TGCACTGTGG GAGCCCCTTT CTGGGCTGGC
-6597 -6497 -6397 -6297 -6297 -6197 -6197 -5997 -5997 -5497 -5297 -5297 -5297 -5297 -5297 -5297 -5297 -5497 -5497 -5497 -5497 -5497 -5497 -5497	-4697 -4597

Smal (-4406) -4497 GCGCACGCCC ACTGCGCGTT CCGGTTGGC GTGGGCTTTGG CGGCCCCCC ACTCGCAGCA GCGGGCCAGC CCTGCCAGGC CCCGGGCCAAT FIG. 3A

		3/10
TCACTGGGGC CCCGACGAGC CCCTGCAGCC TACACCAATC CTAGCTCAGG	TICTGTGAGC AATAAAGCTT CTATCACCTG GGIGCAGGIGGGGTAGGTAGAGGAAATTA CAGTCAAAGG GGGTTTGTTC ATGAGCCAGG AAAAGGACTT TCACAAGGTA ATGTCATCAA GGGGCAGGGC ATATTCACTT CTTTTGTGAT TCTTCAGTTA TCACAGGGCTT GACAGCTACT CTTTTGTGAT TCTTCAGTTA	CTAGTIGGGA CGTGGAGAAC CTTTGTGTCT AGCTCAGGGA TTGTAAACGC ACCAATCAGC GCCCTGTCAA GCTGGCTGC CCGAGCCAGC AGTGGCAAC GCACAGGTCC CCGAGCCAGC AGTGGCAAC GCACAGGTCC CCACTTTTGCG ATAAATCTTG CTACTGCTCG CTTTTTTGGGT CCACACTGCT TTTATGAGCT GTAACACTCC CCACAGAGCCCA CCAGAGAAC CACGAGAAC CACGAAGCAAC CACGAAGAAAAAAAA
GCTCGAGTTC TCACTGGGCC CCCGAGCCTC CCCGACGAGC AGGCAGCTAC CCCTGCAGCC GGATCGTAAA TACACCAATC ACCTTTATGT CTAGCTCAGG GGGTATGTGA ATGCACCAAT	CTATCACCTG CAGTCAAAGG TCACAAGGTA CTTTTGTGAT CTGGTGGGGCC	TIGIAAACGC ACCAATCAGC CCGAGCCAGC AGTGGCAACC CCACACTCGT TITATGAGGC ACACATCTGA ACATCAGAAG ACCAAGCACT CACCAGTTTC AATTGGCGCA GTCGGTGGTC GTGATTGTAC CACAGCCCTC GTGATTGTAC CACAGCCCTC CTAGGTGCAG TGGCTCATGC
CGCTGTGCTC GCTCGATTTC TCACTGGGCCC TCCTGTGCGG CCCGAGCCTC CCCGACGGGCTGC CCCTGCAGCCTAC CCCTGCAGCCTAC TCTAGCTCAG GGATCGTAAA TACACCAATC GCCTTGGAGA ACCTTTATGT CTAGCTCAGG GTCTAGCTCAGG GTCTAGTGA ATGCACCAAT Hindlil (-3722)	AATAAAGCTT AGGAAAATTA AAAAGGACTT ATATTCACTT GACAGCTACT	TTGTAAACGC CCGAGCCAGC CCACACTGCT GGCCGCGCTG ACCAACCATCTGA ACCAAGCAGA GTGATTGTAC CTAGGTGCAG
AGCCCGCCGG CTCCATGGGC CGCACGCAC AACCTTTATG CTCTGATGGG	TIGIGIGAGC AATAAAGCTT CTATCACCTG GGIGCAGGIG GGGTAGGTAA AGGAAAATTA CAGTCAAAGG GGGTTTGTTC ATGAGCCAGG AAAAGGACTT TCACAAGGTA ATGTCATCAAA GGGGCAGGGC ATATTCACTT CTTTTGTGAT TCTTCAGTTA TCAGAGGCTT GACAGCTACT CTGGTGGGGC CTTGGAGAAT	AGCTCAGGGA AGCAGGCTGC CTTTTTGGGT GAACAGCTCC GAAACTGCGA AGTCAGTGAG AAATTACAAA GCAGTGAGCT CCTGATATGG
CAGCAGTGCC CAGAGGGGGGGGGGGGGGGGGGGGGGGGG	CAAACAGGCT TATAGGATTT TTGAGCCAGG GTTAAGTTTC TGGCTTGGGC	CGTGGAGAAC CTTTGTGTCT AGCTCAGGGA TTGTAAAACGC ACCAATCAGC GGGCCAGATA AGGAACTAAA AGCAGGCTGC CCGAGCCAGC AGTGGCAACC ATAAATCTTG CTACTGCTCG CTTTTTTGGGT CCACACTGCT TTTATGAGT CACGAACCCA CCGGAGAAT GAACAACTCC GGCCGCGCTG CCTTAAGAGC CACGAACCCA CCAGAAGGAA GAAACTGCGA ACACATCTGA ACATCAGAAG GTCCGCGGCT TCCTTCTTGA AGTCAGTGAG ACCAACCCTC CACCAGTTTC CCTCTCTGCA AAAAAAAAAAAAA AAATTACAAA AATTAGGCGGA GTCGGTGGTC GAGCCTGGGA GGTGAAGACT GCAGTGAGCT GTGATTGTAC CACAGCCCTC CAAAAGTGTA ATAAGAGGTG CCTGATATGG CTAGGTGCAG TCGCTCATGC AGGAGTGTGA GACCAGCCTG GCCAACATGG AGAAAGCCCA TCCTTCTTAA
CTGGGTGCCC CCGCCATGCC CAAGGGCTGA AGTCTGGTGG CCACACTCTG	CATCCGTGTG AAGAGACCAC CAAACAGGCT AGATAAGGGT GGGGCGTTT TATAGGATTT GTGCTCAGTG GGGGTGCTTT TTGAGCCAGG TTTGTGGTGG AATGTCATCA GTTAAGTTTC TTACAGGGGA TGCGATGGCT TGGCTTGGGC	•
GAGGGTGTA CTGGGTGCCC CAGCAGTGCC AGCCCGCCGG CGCTGTGCTC GCTCGATTTC TCACTGGGCCC GACCTGCAGC CCGAGCCTC CCGAGCCTC CCGAGCCTC CCGAGCCTC CCGAGCCTC CCCGAGCCTC CCCGAGCCTC CCCGAGCCTC CCCGAGCCTAC CCCTGCACGCC CGGGACTGC AGCCAGCTAC CCCTGCAGCC CGGGACTCC AGCCAGCTAC AGCTTGGAG AACCTTTATG TCTAGCTCAG GATCGTAAA TACACCAATC TAGCACCAAT CTAGCTCAG GCTTTGTAAA CACACTTAGCTC AGCACCTGT GTCTAGCTCA GGTTTGTAAA CACACCAATC AGCACCTGT GTCTAGCTCA GGTTTGTAAA CACACCAATC AGCACCCTGT GTCTAGCTCA GGTTTGTAAA CACACCAATC HINDIII (-3722)	CATCCGTGTG AGATAAGGGT GTGCTCAGTG TTTGTGGTGG	NAT CTAGTGGGGA CAG GATGTGGGGA TIT GCTGTTTGCG AAG CCACTAAGAC CAG CCACGAGAC CAT CACTGCGAGAC ACT CACTGCGAGAC GGG AGGATGGCTT GCA AAAAAATTGA GTC ACCTAAGGTC GGA ACCTAAGGTC GCA AAAAAATTGA
-	CTTTCATGGG TCAGCGAAGG GGGTCGCAAG TTACACCTCT TATGTGCAAG	TCTAGTTAAT CAATCAGCAG TTGTTCTTTT ACTCCTGAAG CACTCCTCAG CTGTAACACT TGGGCAACAT TAAAGTTGGG CCCCTCCGCA
Smal (-4383) ccccccccc cacc ccccccccc cacc crccacacc cccc rccacrcc ccca rrcraccrca ccrt arcraccrca cccrt	INTCTGGCTA SAAAAGAGAG CAGGAGTGGG GACCCGCCAT	Sall (-3290) GTTTGTGTCG ACACTCTGTA TCTAGTTAAT CTACCACAA CTATCCACAA TATGGCAGCT TTGTTCTTTT CCACGAAGG TCTCCAGCTTC ACTCCTGAAG ACCGCGAAGG TCTCCAGCTTC ACTCCTGAAG CACATGCACC ACCTTAAGAG CTGTAACACT CCAGGAGTTT GAGATCAGCC TGGGCAACAT GGTCCCAGCT ACCCGGAGGC TAAAGTTGGG GACAGACTGA GACCCTGTTT CCCTCCGCA AGCACTTTGG GAAGCCGAGG CGGCCGGGTC
Smal (-4383) -4397 GAGAGGCTTA GCACCGGGC CAGGGGCTGC -4197 ACCACCCCCT GCTCCACAGC GCCCAGTCCC -4097 CTGGTGCGA ATCCACTGG TGAAGCCAGC -3997 AGCACCCTGT GTCTAGCTCA GGGTCTGTA -3897 GATTGTAAAT ACACCAATCG GCACTTGTA	-3797 CGACAGTCTG TATCTGGCTA CTTTCATGGG -3697 GGCTGAGTCC GAAAAGAGAG TCAGCGAAGG -3597 TCTGGCCGGG CAGGAGTGGG GGGTCGCAAG -3497 TTAAAGGCAAG GACCCGCCAT TTACACCTCT -3397 CTTCAGGCCA TCTGGGCGTA TATGTGCAAG	Sall (-3290) GTTTGTGTCG ACACTCTGTA TCTAGTTAAT AACAGACCAC TCGGCTCTAC CAATCAGCAG CTATCCACA TATGGCAGCT TTGTTCTTTT CCACGAAGG CTGCAGCTTC ACTCCTCAAG ACCGCAAGG TCTGCAGCTT CACTCCTCAG CAGATGCACC ACCTTAAGAG CTGTAACACT CCAGGAGTTT GAGATCAGC TGGGCAACAT GGTCCCAGCT ACGCGGAGGC TAAAGTTGGG GACAGACTTGG GAAGCCGAGG CGGGGGTC AGCACTTTGG GAAGCCGAGG CGGGGGTC
-4397 G -4297 T -4197 A -4097 C -3997 P	-3797 C -3697 C -3597 7 -3497 7	

GIGAGCCGAG ATCGTGCCAT TGCACTCCAC CCACTCCAGC CTGGGCAACA AGAGCCAAAC TCTGTCTTAA AAAAAAAAA AAAGTGCCTG ACATATAAGA GETGTGCAAT GCATAGTTGC CAGGCAACAT GTTTAAGAAT GTGGAGCTCC TGCCTTCCAT GGTCCTGTTA AAAACCCACC CTCAAGGCCA GGTGCAGTGG CTCATGCCTA TAATCCCAGC ACTITIGGGAG GCCGAGGCGG GTGGATCACC TGAGGTCAGG AGTTCGAGAC CAGCCTGACC ACCAACATGG TGAAATCCCA

-2297

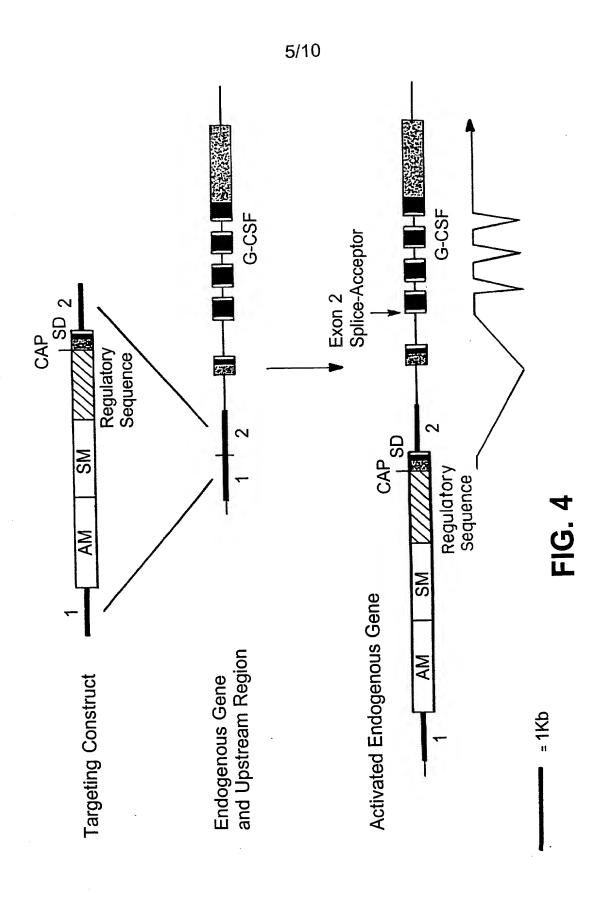
-2197

-2097 -1997

TTAGCCGGCT GTGGGGGCAG TGGTGGAGCA TGCCTGTÁAT CCCAGCTACT CAGGAGGCTG AGGCAGGAGA ATCACTTGAA CCCAGGAGGC GGCGGTTGCA

	4/10	(-297)
CCAGGGAGGC CTCTCTACTC GTGTGTGAGA TTCTCATCCA GTGGCTGTAG CGTGACCATC AGGCTGAGGC CTGGAAAAGA GTTCACGGGG		= (E)
Sphl (-1858) ATGGTGGTGC ATGCCTGTAA TCCCACCTAC TGGGAGGCTG AGGCAGGAŁŁ ATCACTAGAA CCAGGGAGGC TCCACTCCAG CCTGAGCAAT TCCCACCTAC TGGGAGGCTG AGACCACAŁ CAAAAACCCA CTCTCTACTC CAGTGCAAGG TCCTGAGCCA CAGGCTAAG GCGACGTGCA GGACCGCGGŁ CCAGATAACA GTGTGTGAGA AATTAGGACA GAAGGTGACA GAGATGCCC CATCCAGTCA CCACATCCAC TTCTCATTCA AATTAGGACA GAAGGTGACA GTCTTGGAGGC CGAGGCGGGT GATCCCCCA GGCAGGCCTT GTGGCTGTAG TAAAAATACA AAAAATTGGC CGAGGCGGGT GGATCACGAG GTCAGGAGAT CGTGACCATC TTAAAAATACA AAAAATTGGC CGGCCATGGT GGCGGCCTG GCACGCCTCCA GCCAGGACTCCA TCGGAGAGATCCA TCCAGGCTGC TCAGGCCTGG GCGACTGCA TCCAGGCTCCA TCCAGGCTCCA TCCAGGCTCCA TCCAGGCTCCA TCCAGGCGCA AAGACTCCAT TCCTGGCCA GTTCACGGGG GTTCACGGGGG GTTCACGGGGG GTTCACCATCA TCCCTGGCCA TCCCTGGCCA GTTCACCATGA CCTTCCTGCCCAA GACTTCCT TCCTGGCCA GTTCACCGGGG GTTCACGGGGG GTTCACCATGA CCTTCAGGCCAA GGCACTTCCT TCCTGGCCCA GTTCACCATGA CCTTCAGGCAAA GGCACTTCCT TCCTGGCCCA GTTCACCATGA CCTTCAGGCAAA GGCACTTCCT TCCTGGCCCA GTTCACCAGGG GTTCACCAGGGGGGGGGG	TTAACGCTGC ATGGTTCTAA GATGAGAAGA TGGGGCAGTT TCCCCTCTCT. CACCCCAGCC CGTGTCCACT CCCAATCCG CAGTTCCAAA GCCCTTGGGA CCCTACTGTC AGGGTCGTGC ACGAGGAGGT GAAGGTCAGG ATTCGGGACA GACATCCGGA TTCCTCTGGC TCTACCGGAT TCTAGGGCTT TAGCCGAATG AGTCATGGGG TCAACTTGGA CAGACAGCCT GGAACTTTCG ATGGTGCCTA TCCAAGTGTG GGGTGGGCAC AGCAGCCAAG AGCTTTGGGG GTAGGAATGG GAGGAGCAC GGTACTTTTTTTTTT	TCTGTTCAA CACAATTTCA CTTAGTCGTG CAGCCCCACC
AGGCAGGALA AAAACAACAA GGACCGCGA CATCCAGTCA GACTGCCCCA GGATCACGAG TGTAGTTCCA GCGACAGAGC	TCCCTCTCT AGGGTCGTC TCTAGGGCTT TCCAAGTGTG GTAGGAATGG CCCCACAAGT	TGTTCAGCTG TCAGAGATTC ATTACTAAGC) GCCTGCAGCC
TGGGAGGCTG CCATCTCAAA GCGACGTGCA GAGATGGCC TGGTCAGTCA CGAGGCGGGT GCCGGGCACC TCCAGCCTGG	TEGGGCAGTT CCCTACCGGAT TCTACCGGAT ATGGTGCCTA GAGTTTGGGG AAGGACACTC	GCTCAGCCTT CAAAGGAGGA CTGGGAAGTT CAP (-34) ACAGCCCGGA
TCCCACCTAC GAGCGAAACT CAGAGCTAAG CCAAGCACAC GTCTTGGGGG TTTGGGAGGC CGGGCATGGT GCCACTGCAC CTTACCATGA	GATGAGAAGA GCCCTTGGGA TTCCTCTGGC GGAACTTTCG AGCCTCCGGA GAGAGGGCCA	TCTATCAGCG AAGGCGACGT TGCATAAATC GGGCCCCAAA
Sphl (-1858) TGC ATGCCTGTAA TAG CCTGAGCAAT AGG TGCTGAGCCA CAC GAGGGGGCC ACA GAAGGTGACA ATTCTGTCA TTA AATTCTGTCA TGT AATTCTGTCA	ATGGTTCCAAA CAGTTCCAAA GACATCCGGT CAGACAGCCT CCAGACAGGC AATCCCAAAG	CTTCCAGGCG TGAGGGGGC, ACACCAAATT) CCCTAGAGCT
Sph ATGGTGGTGC CAGTGCAGG CAGTGACCAC AATTAGGACA CACGCCTGTA TAGAAATACA TTGCAGGTGT	TTAACGCTGC CCCAATCCCG ATTCGGGACA TCAACTTGGA AGGAGGTCTC CAGGCTTGAG	G GCCTCTGCCG G GAAGGGAGTT C ATTGTCTTGG TATA box (-67)
TTAGATGAGC ATCGTGCCAT TGGGCCACAT TCCTGCCAT CGCTGGGGTA CGACGTGGCT CCGTCTCTAC GAGGCAGGG GAGCCAGAGG	CCTTCCAGCA AGTCACGTGT GTCTTGCCTC TCCCAGCTAA GTAGGGGCTC GCTTGGGGGA	TTCCCCACAG GCACCGGAG ACCCCCTGC TA GGGGTTATGT
ADATACADA TENGATGAGC ATGCTGTAA TCCCACCTAC TGGAGGCTG AGGCAGGALA ATCACTAGAA CCAGGGAGGCTG AGGCAGGALA ATCACTAGAA CCAGGGAGGCTG AGGCAGGALA ATCACTAGAA CTCTTACTC GAGTAGCCGAG ATCGTGCCAT TGCTGCAAT GAGGCAAT GAGTGAACT CCAGGTGCA GAGCGTGCA GAGCGGGG CCAGGTCAC CTCTCTTACTC AGATCAGACG TCCTGCCAT TGGTGACCAC CAGGGGGCCC CAGACGTGCA GAGATGGCC CATCCCGGGA CCACATCCAC TTCTCTTGCA GAGTGACA GAGATGGCC CATCCCAGTCA CTCTCTACTCA GAGTGACA GAGGTGACA GAGATGGCC CATCCCAGTCA CTCTCTACTCA GAGTGACA GAGTGACA GAGTGACA GAGTGACA GAGTGACA GAGTGACA GAGTGACA TTTGGGAGGC CAAGACCCCA GAGGTGGCT TTTGGGAGG CCAGGCCCTT GTGGCTGTAG CGGGGGACC TGTAGTTCCA GACTCAGAGA CGGGGGACC TGTAGATTCCA GATCTCGAG AGGCTGAGGC GAGGTGAAAAGA TTGCAGAGTCA AAAAATTGGC GCGCAGTGCA TCCAGGCAA GAGCTGAGGC TCCAGGCTGT AATTCTGTCA CTTACCATGA CCTTGGGCAA GGCACGAGC AAGACTCCAT CTGGAAAAAGA CCTTCAGGTGT AATTCTGTCA CTTACCATGA CCTTGGGCAA GGCACTTCCT TCCTGGCCA GTTCAGGGGG GTTCAGGGGG GTTCAGGGCAA GGCACTTCCT TCCTGGCCA GTTCAGGGGG GTTCAGGGGG GTTCAGGGCGAA GGCACTTCCT TCCTGGCCA GTTCAGGGGG GTTCAGGGGCAA GGCACTTCCT TCCTGGCCA GTTCAGGGCGA GTTCAGGGGG GTTCAGGGCGAA GGCACTTCCT TCCTGGCCA GTTCAGGGGG GTTCAGGGCGAA GGCACTTCCT TCCTGGCCA GTTCAGGGGG GTTCAGGGGGGT GTTCAGGGGGAAAAGA GTTCAGGGCTA GTTCAGGGGAA GGCACTTCCT TCCTGGCCA GTTCAGGGGGGT GTTCAGGGGGGT GTTCAGGGGGAAAAGA GTTCAGGGCAA GGCACTTCCT TCCTGGCCAA GTTCAGGGGGGT GTTCAGGGGGAAAACA CTTTCAGGCAAA GGCACTTCCT TCCTGGCCAA GTTCAGGGGGGT GTTCAGGGGGGT GTTCAGGCGAAACA GTTCAGGGGGAAACA GCTTCAGGCAAAACA CTTTCAGGCAAA GGCACTTCCTAGCCCA GTTCAGCCTGA GTTCACGCAAAAA GTTCACGAAAACA CTTTCAGGCAAA GGACTTCCTAGCCCA GTTCAGCCTGA GTTCACGCAAAACA GTTCACGCAAAAACA CTTTCACACTCCAACTCCAACTCCAACTCCAACACTCAACACAACA	CTCCAGGTC TGACCAGGGA GCCTCGAAGG TCTGGGGAGT CTTATCTCAG	CAGCTGCCAC CCTGGGTGGG TTTTGTTCCA AGGCCTCCAT
CCTCTACTAA AAATACAAA TTAGATGAGC ATGCTGCTAA TCCCACCTAC TGGGAGGCTG AGGCAGGAAA ATCACTAGAA CCAGGGAAAA TTAGATGAGC ATGCTGGCAAT GGCGAAACTACTAAAAAAAAAA	TYGGAATCGA TYGGAATCA TYGAATCA TYGGAATCA T	S -397 GACCCCGACT CAGCTGCCAC TICCCCACAG GCCTCTGCCG CTTCCAGGCG TCTATCAGCG GCTCAGCCTT TGTTCAGCTG TTCTGTTCAA ACACTCTGGG -297 GCCATTCAGG CCTGGGTGGG GAAGGGAGTT TGAGGGGGGC, AAGGCGACGT CAAAGGAGGA TCAGAGATTC CACAATTTCA CAAAACTTTC -197 GCAAACAGCT TTTTGTTCCA ACCCCCTGC ATTGTCTTGG ACACCAAATT TGCATAAATC CTGGGAAGTT ATTACTAAGC CTTAGTCGTG GCCCCAGGTA ATTACTCCCC AGGCCTCCAT GGGTTATGT ATAAAGGGCC CCCTAGAGCT GGCCCCAAA ACAGCCCGGA GCCTGCAGCC CAGCCCACC 1PM61
-1897 -1797 -1697 -1597 -1497 -1397 -1297		-397 -297 -197

intron 1 (41)
4 GCTGGACCTG CCACCCAGAG CCCCATGAAG CTGATGGGTG AGTGTCTTGG CCCAGGATG (SEQ ID NO: 1)
2 A I a GI y Pro A I a Thr GI n Se r ProMet Lys Leumet (SEQ ID NO: 2)



GATCACTTGAGGACAGTTCAAGACCAGCCTGGGCAGCATAGGGAGACTGTCTCTACGAAAAA TCAAAAAATTATGGCCGGGCATGGTGGCTCACGTCTGTAATCCCTGAACTTTGGGACATCAAGGC AAGTGGATCACTTGAGGTCAGGAGTTCGAGACTAGCCTGGCCAACATGGTGAAACCCTATCTCCA CTAAAAATTACAAAATTAGCCAGGCATGGTGGCAGGCACCTGTAATCCCGGCTACTCAGGAGGC TGAGGCAGGAGATCACTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCTGAGATCACACCACTGC AGGCATGGTAGTGCACACCTCTAGTCTCAGCTACTCAGGAGGCTGAGGTGGGAGGATCACTTGAA CCTGGGGCAGTCAAGGCTACAGTGAGCCAAGATCATGCCACTACACTCCAGCCTGGGCAACAGAG AGAGACCCTGTCTCTAAAAAAATAATAATAATAAGAAAAAACAGCTCTGTTTATGTCTCCTGG TCCATACATACTACTATGTATATAGTTTGCAAACTCAAAGATCCAGATAGTCAATTTTTTAGGCT TGTGGGCCGTATGGTCTCTGTCACAATCACTCTGCCCTGTCTTTCTAGCACAAAAGCAGCTATAA ACAATACATACATGAATTTTTTATAGACATCGAGATTTGAATTTCATATGATTTTTACATTTTAT AAAATAATCTTTTTAAAAATTTTCCCCTAACCATTTAAAAGTGTAAAAGCCGGCCAGGGCGCCAT CGTCACGCCTGTAATTCCAGCACTTTGGGAGGCTGAGGTGGGCAGATCACTTGAGATCAACAGTT CGAGACCAGCCTGGCCAACATAGCAAAACCCCATTTCTACTAAAAAATAAAAAATTAGCTGGGCA TAGTGGTGCACACCTGTGATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCTGG GAAGCGGAGGTTGCAGTGAGCCAACATCATGCCACTGCACTCCAGCCTGGGTGACAGAGTGAGAC TTCGTCTCAACGAAAAAAAAGTGTAAAAGCCATTCCTAATTCAGTGTACATCAGTGTACATAC TCAGGTCTGCGTACTCCTGAGGCATACCTGAGAAGTAGAGTTGCTTGGTCACAGGACATA CACTCCCCCAGCAACAATGAGAGTTACTCCAGATCCTTTACAAAGATGCTCTAAGCCCAGTAC CAGATGAAAACAGGAAGTGGGAGGGGAAGCTGCCAGCCCCTTCTAACCATGAAGAAATACCTGGT AGAGCCTTCTGGATGCTGGAAGGATGAATAACGGGGGTCTCTGGAGCCTGCCCCCTGTCAGATCA CTGTGACTTCTGAGCCTCCAGTCCAGTCTCAGCCCCATGTGTCATGGCCAGTGATAATGAGCCCT CACTCTCTGTTTGGTCTTTATTCTCCCCATGTGGGGCTGAAGTCTGGATTGAGCCGTTATTCAAG ATGTACAGCTTTCTTGACAGGAAAGTAGTGTCACAGAAACAGCAGGGGCTTGGCAAGATGATCTA ACTGCAAATCCTACCTGGCTCAGCCACCAGCTAGTTCTGTGATCTTGAACAAGTTTTTTCACTTC TCTGAGGCCATCCCTTGGCTACAACACACCAGTTGGTTGACAGGATGAAATGACGAAGTCCCTTA CACCTGTAATCCCAGCACTTTGGGAGGCCAAGGCGGGTGGATGGCTTGAGCCTGAGAGGTGACAG CATGCCGGCAGTCCTCACAGCCCTCGTTCGCTCTCGGCGCCTCCTCTGCCTGGGCTCCCACTTCG GTGGCACTTGAGGAGCCCTTCAGCCCACCGCTGCACTGTGGGAGCCCCTTTCTGGGCTGGCCAAG TGCGCACGGCGCTTGCGGGCCAGCTGGAGTTCCGGGTGGGCGTGGGCTTGGCGGGCCCCGCACTC GGAGCAGCGGGCCAGCCCTGCCAGGCCCCGGGCAATGAGAGGCTTAGCACCCGGGCCAGCGGCTG TGGGCCTTAGCAGCCTTCCCGCGGGGCAGGGCTCGGGACCTGCAGCCCGCCATGCCTGAGCCTCC CCTCCATGGGCTCCTGTGCGGCCCGAGGCCTCCCGACGAGCACCACCCCCTGCTCCACAGCGCCCC CCCCTGCAGCCCTGGTGCGGAATCCACTGGGTGAAGCCAGCTGGGCTCCTGAGTCTGGTGGAGAC TTGGAGAACCTTTATGTCTAGCTCAGGGATCGTAAATACACCAATCAGCACCCTGTGTCTAGCTC AGGGTCTGTGAATGCACCAATCCACACTCTGTATCTAGCTACTCTGATGGGGCCTTGGAGAACCT TTATGTCTAGCTCAGGGATTGTAAATACACCAATCGGCACTCTGTATCTAGCTCAAGGTTTGTAA

FIG. 5A

7/10

ACACACCAATCAGCACCCTGTGTCTAGCTCAGGGTATGTGAATGCACCAATCGACAGTCTGTATC TGGCTACTTTCATGGGCATCCGTGTGAAGAGACCACCAAACAGGCTTTGTGTGAGCAATAAAGCT TCTATCACCTGGGTGCAGGTGGGCTGAGTCCGAAAAGAGAGTCAGCGAAGGGAGATAAGGGTGGG GCCGTTTTATAGGATTTGGGTAGGTAAAGGAAAATTACAGTCAAAGGGGGTTTGTTCTCTGGCGG GCAGGAGTGGGGGGTCGCAAGGTGCTCAGTGGGGGTGCTTTTTGAGCCAGGATGAGCCAGGAAAA GGACTTTCACAAGGTAATGTCATCAATTAAGGCAAGGACCCGCCATTTACACCTCTTTTGTGGTG GAATGTCATCAGTTAAGTTGGGGCAGGGCATATTCACTTCTTTTGTGATTCTTCAGTTACTTCAG GCCATCTGGGCGTATATGTGCAAGTTACAGGGGATGCGATGGCTTGGCTTGGGCTCAGAGGCTTG ACAGCTACTCTGGTGGGGCCTTGGAGAATGTTTGTGTCGACACTCTGTATCTAGTTAATCTAGTG GGGACGTGGAGAACCTTTGTGTCTAGCTCAGGGATTGTAAACGCACCAATCAGCGCCCTGTCAAA CTGCCCGAGCCAGCAGTGGCAACGCGCACAGGTCCCTATCCACAATATGGCAGCTTTGTTCTTTT GCTGTTTGCGATAAATCTTGCTACTGCTCTGCTTTTTGGGTCCACACTGCTTTTATGAGCTGTAAC ACTCACCACGAAGGTCTGCAGCTTCACTCCTGAAGCCACTAAGACCACGAGCCCACCGGGAGGAA TGAACAACTCCGGCCGCGCTGCCTTAAGAGCTATAACACTCACCGCGAAGGTCTGCAGCTTCACT CCTCAGCCAGCGAGACCACGAACCCACAGAAGGAAGAACTGCGAACACATCTGAACATCAGAA TCTTGAAGTCAGTGAGACCAAGCACTCACCAGTTTCGGACACAAGCCCAGGAGTTTGAGATCAGC GGTGGTCCGTGCCTGTGGTCCCAGCTACGCGGGAGGCTAAAGTGGGAGGATCGCTTGAGCCTGGG AGGTGAAGACTGCAGTGAGCTGTGATTGTACCACAGCCCTCTAGGCTGGGGGACAGACTGAGACC CTGTTTCCCCTCCGCAAAAAATTGACAAAAGTGTAATAAGAGGTGCCTGATATGGCTAGGCGCA GTGTGAGACCAGCCTGGCCAACATGGAGAAAGCCCATCTCTTCTAAAAATACAAAATTAGCCGGC TGTGGGGGCAGTGGTGGAGCATGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCA TGTGCAATGCAATAGTTGCCAGGCAACATGTTTAAGAATGTGGAGCTCCTGCCTTCCATGGTCCT GTTAAAAACCCACCCTCAAGGCCAGGTGCAGTGGCTCATGCCTATAATCCCAGCACTTTGGGAGG CCGAGGCGGGTGGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGACCACCAACATGGTGAAAT CCCACCTCTACTAAAATACAAAATTAGATGAGCATGGTGGTGCATGCCTGTAATCCCACCTACT TGGGAGGCTGAGGCAGGAAAATCACTAGAACCAGGGAGGCGGAGGTTGTAGTGAGCCGAGATCGT CTCTCTACTCCCAGGGAGCTGGGTACAGAGCTGGGCCACATCAGTGCAAGGTGCTGAGCCACAGA GCTAAGGCGGAGCTGCAGGACCGCGGACCAGATAACAGTGTGTGAGATCAGTGTGTGAGATCAGA CGTCCCTGCCATTGGTGACCACCAGGGGGCCCCCAAGCACCAGAGATGGCCCCATCCAGTCACCA CATCCACTTCTCATCCAGAGATGTCTGTTTCTTGGCACGCTGGGGTAAATTAGGACAGAAGGTGA CAGTCTTGGGTGTGGTCAGTCAGACTGCCCCAGGCAGGCCTTGTGGCCTGTAGAAAACGTTCAGG CCTAGGCCGGGCACGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGAT CACGAGGTCAGGAGATCGTGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATAC AAAAAATTGGCCGGGCATGGTGGCGGGCACCTGTAGTTCCAGCTACTCGGGAGGCTGAGGCAGGA GAATGGCGTGAACCCGAGAGGCAGAGTTTGCAGTGAGCCGAGATCGCGCCACTGCACTCCAGCCT GGGTTGGAATCGACTCCAAGGTCCCTTCCAGCATTAACGCTGCATGGTTCTAAGATGAGAAGATG GGGCAGTTTCCCCTCTCTCACCCCAGCCCGTGTCCACTTCAAGGTGAATGACCAGGGAAGTCACG TGTCCCAATCCCGCAGTTCCAAAGCCCTTGGGGACCCTACTGTCAGGGTCGTGCACGAGGAGGTG GAGTTCCCAGCTAATCAACTTGGGACAGGACAGCCTGGAACTTTCGATGGTGCCTATCCAAGTGT GGGGTGGGCACAGCAGCCAAGACCCAATGTCCTTATCTCAGGTAGGGGGCTCAGGAGGTCTCCCAG ACAGGCAGCCTCCGGAGAGTTTGGGGGTAGGAATGGGAGCAACCAGGCTTCTTTTTTTCTCTCTTT AGAATTTGGGGGGCTTGGGGGACAGGCTTGAGAATCCCAAAGGAGAGGGGGCAAAGGACACTCCCCC ACAAGTCTGCCAGAGCGAGAGAGGGGAGACCCCGACTCAGCTGCCACTTCCCCACAGGCCT

CC GGCAGTCCTC ACAGCCCTCG TTCGCTCTCG GCGCCTCCTC TGCCTGGGCT CCCACTTCGG TGGCACTTGA GGAGCCCTTC AGCCCACCGC TGCACTGTGG GAGCCCCTTT CTGGGCTGGC CAAGGCCAGA GCCGGCTCCC TCAGCTTGCA GGGAGGTGTG GAGGGAGAGG CTCAAGCAGG AACCGGGGCT GCGCACGGCG CTTGCGGGCC AGCTGGAGTT CCGGGTGGGC GTGGGCTTGG CGGGCCCCGC ACTCGGAGCA GCGGGCCAGC CCTGCCAGGC CCCGGGCAAT GAGAGGCTTA GCACCCGGGC CAGCGGCTGC GGAGGGTGTA CTGGGTGCCC CAGCAGTGCC AGCCCGCCGG CGCTGTGCTC GCTCGATTTC TCACTGGGCC TTAGCAGCCT TCCCGCGGGG CAGGGCTCGG GACCTGCAGC CCGCCATGCC TGAGCCTCCC CTCCATGGGC TCCTGTGCGG CCCGAGCCTC CCCGACGAGC ACCACCCCT GCTCCACAGC GCCCAGTCCC ATCGACCACG CAAGGGCTGA GAAGTGCGGG CGCACGGCAC CGGGACTGGC AGGCAGCTAC CCCTGCAGCC CTGGTGCGGA ATCCACTGGG TGAAGCCAGC TGGGCTCCTG AGTCTGGTGG AGACTTGGAG AACCTTTATG TCTAGCTCAG GGATCGTAAA TACACCAATC AGCACCCTGT GTCTAGCTCA GGGTCTGTGA ATGCACCAAT CCACACTCTG TATCTAGCTA CTCTGATGGG GCCTTGGAGA ACCTTTATGT CTAGCTCAGG GATTGTAAAT ACACCAATCG GCACTCTGTA TCTAGCTCAA GGTTTGTAAA CACACCAATG AGCACCCTGT GTCTAGCTCA GGGTATGTGA ATGCACCAAT CGACAGTCTG TATCTGGCTA CTTTCATGGG CATCCGTGTG AAGAGACCAC CAAACAGGCT TTGTGTGAGC AATAAAGCTT CTATCACCTG GGTGCAGGTG GGCTGAGTCC GAAAAGAGAG TCAGCGAAGG GAGATAAGGG TGGGGCCGTT TTATAGGATT TGGGTAGGTA AAGGAAAATT ACAGTCAAAG GGGGTTTGTT CTCTGGCGGG CAGGAGTGGG GGGTCGCAAG GTGCTCAGTG GGGGTGCTTT TTGAGCCAGG ATGAGCCAGG AAAAGGACTT TCACAAGGTA ATGTCATCAA TTAAGGCAAG GACCCGCCAT TTACACCTCT TTTGTGGTGG AATGTCATCA GTTAAGTTGG GGCAGGGCAT ATTCACTTCT TTTGTGATTC TTCAGTTACT TCAGGCCATC TGGGCGTATA TGTGCAAGTT ACAGGGGATG CGATGGCTTG GCTTGGGCTC AGAGGCTTGA CAGCTACTCT GGTGGGGCCT TGGAGAATGT

TIGITCGAC ACTOTGTATO TAGITAATOT AGTGGGGACG TGGAGAACOT TIGITCTAG
CTCAGGGATT GTAAACGCAC CAATCAGCGC CCTGTCAAAA CAGACCACTC GGCTCTACCA
ATCAGCAGGA TGTGGGTGGG GCCAGATAAG AGAATAAAAG CAGGCTGCCC GAGCCAGCAG
TGGCAACGCG CACAGGTCCC TATCCACAAT ATGGCAGCTT TGTTCTTTTG CTGTTTGCGA
TAAATCTTGC TACTGCTCGC TTTTTGGGTC CACACTGCTT TTATGAGCTG TAACACTCAC
CACGAAGGTC TGCAGCTTCA CTCCTGAAGC CACTAAGACC ACGAGCCCAC CGGGAGGAAT
GAACAACTCC GGCCGCGTG CCTTAAGAGC TATAACACTC ACCGCGAAGG TCTGCAGCTT

FIG. 6A

CACTCCTCAG CCAGCGAGAC CACGAACCCA CCAGAAGGAA GAAACTGCGA ACACATCTGA ACATCAGAAG GAACAAACTC CAGATGCACC ACCTTAAGAG CTGTAACACT CACTGCGAGG GTCCGCGGCT TCCTTCTTGA AGTCAGTGAG ACCAAGCACT CACCAGTTTC GGACACAAGC AAATTACAAA AATTGGCGGA GCATGGTGGT CCGTGCCTGT GGTCCCAGCT ACGCGGGAGG CTAAAGTGGG AGGATCGCTT GAGCCTGGGA GGTGAAGACT GCAGTGAGCT GTGATTGTAC CACAGCCCTC TAGGCTGGGG GACAGACTGA GACCCTGTTT CCCCTCCGCA AAAAAATTGA CAAAAGTGTA ATAAGAGGTG CCTGATATGG CTAGGCGCAG TGGCTCATGC CTGTAATCCC AGCACTTIGG GAAGEEGAGG EGGGEGGGTE ACCTAAGGTE AGGAGTGTGA GACCAGEETG GCCAACATGG AGAAAGCCCA TCTCTTCTAA AAATACAAAA TTAGCCGGCT GTGGGGGCAG TGGTGGAGCA TGCCTGTAAT CCCAGCTACT CAGGAGGCTG AGGCAGGAGA ATCACTTGAA CCCAGGAGGC GGCGGTTGCA GTGAGCCGAG ATCGTGCCAT TGCACTCCAC CCACTCCAGC GAGGTGTGCA ATGCAATAGT TGCCAGGCAA CATGTTTAAG AATGTGGAGC TCCTGCCTTC CATGGTCCTG TTAAAAACCC ACCETCAAGG CCAGGTGCAG TGGCTCATGC CTATAATCCC AGCACTITGG GAGGCCGAGG CGGGTGGATC ACCTGAGGTC AGGAGTTCGA GACCAGCCTG ACCACCAACA TGGTGAAATC CCACCTCTAC TAAAAATACA AAATTAGATG AGCATGGTGG TG

FIG. 6B

10/10

```
CCTG TAATCCCACC TACTTGGGAG GCTGAGGCAG GAAAATCACT AGAACCAGGG
      AGGCGGAGGT TGTAGTGAGC CGAGATCGTG CCATTGCACT CCAGCCTGAG CAATGAGCGA
      AACTECATET CAAAAAAACA ACAACAAAAA CECAETETET ACTECEAGGG AGTTGGGTAC
      AGAGCTGGGC CACATCAGTG CAAGGTGCTG AGCCACAGAG CTAAGGCGGA GCTGCAGGAC
      CGCGGACCAG ATAACAGTGT GTGAGATCAG TGTGTGAGAT CAGACGTCCC TGCCATTGGT
      GACCACCAGG GGGCCCCCAA GCACCAGAGA TGGCCCCATC CAGTCACCAC ATCCACTTCT
      CATCCAGAGA TGTCTGTTTC TTGGCACGCT GGGGTAAATT AGGACAGAAG GTGACAGTCT
-1457 TGGGTGTGGT CAGTCAGACT GCCCCAGGCA GGCCTTGTGG CCTGTAGAAA ACGTTCAGGC
-1397 CTAGGCCGGG CACGGTGGCT CACGCCTGTA ATCCCAGCAC TTTGGGAGGC CGAGGCGGGT
-1337 GGATCACGAG GTCAGGAGAT CGTGACCATC CTGGCTAACA CGGTGAAACC CCGTCTCTAC
-1277 TAAAAATACA AAAAATTGGC CGGGCATGGT GGCGGGCACC TGTAGTTCCA GCTACTCGGS
      AGGCTGAGGC AGGAGAATGG CGTGAACCCG AGAGGCAGAG TTTGCAGTGA GCCGAGATCG
-1217
-1157 CGCCACTGCA CTCCAGCCTG GGCGACAGAG CAAGACTCCA TCTGGAAAAG AAAAAGAAAA
-1097 CGTTCAGGTC TGAGCCAGAG GCCCAGGCTG TAATTCTGTC ACTTACCATG ACCTTGGGCA
      AGGCACTICC TICCCIGGCC CAGTICACGG GGTIGGAATC GACTCCAAGG TCCCTTCCAG
-1037
 -977 CATTAACGCT GCATGGTTCT AAGATGAGAA GATGGGGCAG TTTCCCCTCT CTCACCCCAG
 -917 CCCGTGTCCA CTTCAAGGTG AATGACCAGG GAAGTCACGT GTCCCAATCC CGCAGTTCCA
      AAGCCCTTGG GGACCCTACT GTCAGGGTCG TGCACGAGGA GGTGAAGGTC AGGTGAGCCA
 -857
 -797 ATCGCCTCGA AGGGTCTTGC CTCATTCGGG ACAGACATEC GGTTTCCTCT GGCTCTACCC
      GGATTCTAGG GGCTTTAGCC GAATGAGTCA TGGGGGGCGG GGGGGTTTCT GGGGGAGTTC
 -677 CCAGCTAATC AACTTGGGAC AGGACAGCCT GGAACTTTCG ATGGTGCCTA TCCAAGTG
```

FIG. 7